



**SEQUENCE LISTING**

<110> THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE  
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## <120> SYNAPTIC ACTIVATION PROTEIN COMPOSITIONS AND METHOD

<130> JHU1520-2

<140> US 09/910,706  
<141> 2001-07-20

<150> US 09/042,428  
<151> 1998-03-13

<150> US 60/036,553  
<151> 1997-03-14

<160> 15

<170> PatentIn version 3.0

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<212> DNA
<213> Rattus norvegicus
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atg ggg gaa caa cct atc ttc agc act cga gct cat gtc ttc cag atc      48
Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile
   1           5           10          15

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gac cca aac aca aag aag aac tgg gta ccc acc agc aag cat gca gtt      96
Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val
          20           25           30

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act gtg tct tat ttc tat gac agc aca aqq aat gtg tat agg ata atc 144  
 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile  
           35                40                         45

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agt cta gac ggc tca aag gca ata ata aat agc acc atc act cca aac      192
Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn
      50           55           60

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atg aca ttt act aaa aca tct caa aag ttt ggc caa tgg gct gat agc      240
Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser
   65           70           75           80

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cgg gca aac act gtt tat gga ctg gga ttc tcc tct gag cat cat ctc      288
Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu
          85           90           95

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tca aaa ttt gca gaa aag ttt cag gaa ttt aaa gaa gct gct cg<sup>g</sup> ctg 336  
 Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu  
           100              105              110

gca aag gag aag tcg cag gag aag atg gaa ctg acc agt acc cct tca Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser 115 120 125	384
cag gaa tca gca gga gga gat ctt cag tct cct tta aca cca gaa agt Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser 130 135 140	432
atc aat ggg aca gat gat gag aga aca ccc gat gtg aca cag aac tca Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser 145 150 155 160	480
gag cca agg gct gag cca gct cag aat gca ttg cca ttt tca cat agg Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg 165 170 175	528
tac aca ttc aat tca gca atc atg att aaa Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys 180 185	558

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Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile 1 5 10 15	
Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val 20 25 30	
Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile 35 40 45	
Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn 50 55 60	
Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser 65 70 75 80	
Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu 85 90 95	
Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu 100 105 110	
Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser 115 120 125	
Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser 130 135 140	
Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser 145 150 155 160	
Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg 165 170 175	
Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys 180 185	

<210> 3  
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Met Gly Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile  
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 Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys His Gly His  
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 35 40 45  
 Val Asp  
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<210> 4  
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Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser Val Asp  
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 Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn Met Thr Phe  
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 Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn  
 35 40 45  
 Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Leu Gln Leu Thr Lys Phe  
 50 55 60  
 Ala Glu Lys Phe Gln Glu Val Arg Glu Ala Ala Arg Leu Ala Arg Asp  
 65 70 75 80  
 Lys Ser Gln Glu Lys Thr Glu Thr Ser Ser Asn His Ser Gln Glu Ser  
 85 90 95  
 Gly Cys Glu Thr Pro Ser Ser Thr Gln Ala Ser Ser Val Asn Gly Thr  
 100 105 110  
 Asp Asp Glu Lys Ala Ser His Ala Ser Pro Ala Asp Thr His Leu Lys  
 115 120 125  
 Ser Glu Asn Asp Lys Leu Lys Ile Ala Leu Thr Gln Ser Ala Ala Asn  
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 Val Lys Lys Trp Glu Met Glu Leu Gln  
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<400> 9

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<210> 11  
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<223> peptide binding sequence

<400> 11

Ser Ser Ser Leu

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<210> 12  
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<212> PRT  
<213> Rattus norvegicus

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Ala Val Thr Val

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<210> 13  
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Gly His Arg Phe

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<400> 14

Gly Leu Gly Phe

1

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<220>  
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<400> 15

Thr Ser Ser Leu  
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